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Attorney Docket No. 00908-05

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Fagiang Guo, et al.

Customer No.

34444

Serial No.

10/559.907

Art Unit:

1742

Filing Date:

December 8, 2005

Examiner:

Unknown

Title:

Thermally Stable Calcium-Aluminum Bulk Amorphous Metals With Low Mass

Density

Certificate of Facsimile Under 37 CFR §1.8

I hereby certify that this correspondence is being sent via facsimile to 571-273-8300 under 37 C.F.R. §1.8 on the date indicated below and is addressed to Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Date: February 13, 2007

Sue Ann Carr

Request for Corrected Filing Receipt

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 BEST AVAILABLE COPY

Sir:

It is noted on the Filing Receipt mailed January 23, 2007 for the above identified application that "data provided by applicant is not consistent with PTO records" (first page attached). Applicant respectfully requests that the PTO records be corrected. Transmitted herewith is a copy of the first pages of the filing receipts for Provisional Application Nos. 60/490,806 filed July 29, 2003 and 60/524,506 filed November 24, 2003. We also attach the cover page of International Publication No. WO 2004/111283 and the first page of PCT/US2004/016757 showing the related applications.

Please contact me with any questions at the telephone number listed below. Thank you for your assistance.

Respectfully submitted,

Date: February 13, 2007

Rodney L. Sparks, In House Patent Counsel University of Virginia Patent Foundation

250 West Main Street, Suite 300 Charlottesville, VA 22902

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Fax: (434) 924-2493



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CONFIRMATION NO. 9522

34444 UNIVERSITY OF VIRGINIA PATENT FOUNDATION 250 WEST MAIN STREET, SUITE 300 CHARLOTTESVILLE, VA 22902 Date Mailed: 01/23/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mall to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

faqiang Guo, Charlottesville, VA; S, Joseph Poon, Charlottesville, VA; Gary J. Shiflet, Charlottesville, VA;

Power of Attorney: The patent practitioners associated with Customer Number 34444.

Domestic Priority data as claimed by applicant

√This application is a 371 of PCT/US04/16757 05/27/2004

Which claims benefit of 60/477,605 06/11/2003

√and claims benefit of 60/490,806 07/29/2003 *

√and claims benefit of 60/524,506 11/24/2003 *

(*)Data provided by applicant is not consistent with PTO records.

Foreign Applications

If Required, Foreign Filing License Granted: 01/20/2007

The country code and number of your priority application, to be used for filing abroad under the Paris

Convention, is **US10/559,907**

Projected Publication Date: 05/03/2007

Non-Publication Request: No

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UNIVERSITY OF VIRGINIA PATENT FOUNDATION

ATTY.DOCKET NO

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60/490.806 - 07/29/2003 -

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00908-02-

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CONFIRMATION NO. 6044 FILING RECEIPT

OC000000011020729

Date Mailed: 10/10/2003

Receipt is acknowledged of this provisional Patent Application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt Incorporating the requested corrections (if appropriate).

Applicant(s)

Faqiang Guo, Charlottesville, VA; S. Joseph Poon, Charlottesville, VA: Gary J. Shiflet, Charlottesville, VA;

If Required, Foreign Filing License Granted: 10/09/2003

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY ** ~

Title

Bulk amorphous metals based on calcium and aluminum which exhibit high thermal stability and related method of using and making the same -

> LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

UNIVERSITY OF VIRGINIA PATENT FOUNDATION

1224 WEST MAIN STREET, SUITE 1-110



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60/524,506 11/24/2003

CHARLOTTESVILLE, VA 22903

00908-03

CONFIRMATION NO. 4522

FILING RECEIPT

CC000000012193125

Date Mailed: 03/25/2004

Receipt is acknowledged of this provisional Patent Application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-748-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Faqiang Guo, Charlottesville, VA: S. Joseph Poon, Charlottesville, VA; V Gary J. Shiflet, Charlottesville, VA;

If Required, Foreign Filing License Granted: 03/25/2004

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY ***

Title

Bulk amorphous metals based on calcium and aluminum which exhibit high thermal stability and related method of using and making the same

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60/524,506

29 July 2003 (29.07.2003) US 24 November 2003 (24.11.2003) US

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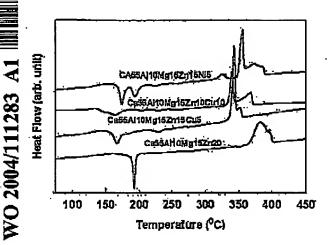
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Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THERMALLY STABLE CALCIUM-ALUMINUM BULK AMORPHOUS METAL WITH LOW MASS DENSITY



(57) Abstract: The present invention relates to novel calcium based amorphous alloys with high thermal stability and low mass density represented by the general formula: CaAlQ, wherein Q represents one or more elements selected from the group consisting of Cu, Ag, Zn and Mg. Typically, the atomic percentage of the calcium is about 50%.

WO 2004/111283

PCT/US2004/016757

Thermally Stable Calcium-Aluminum Bulk Amorphous Metals With Low Mass Density

Related Applications

This application claims priority under 35 USC §119(e) to US Provisional Application Serial Nos. 60/477,605, filed June 11, 2003, 60/490,806, filed July 29, 2003 and 60/524,506, filed November 24, 2003, the disclosures of which are incorporated herein by reference.

10 US Government Rights

This invention was made with United States Government support under an Air Force Office of Scientific Research Contract No. F33615-01-2-5217 awarded by the Defense Advance Research Projects Agency. The United States Government has certain rights in the invention.

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Background

Bulk-solidifying amorphous metal alloys (a.k.a. bulk metallic glasses) are those alloys that can form an amorphous phase upon cooling the melt at a rate of several hundred degrees Kelvin per second or lower. Amorphous alloys usually exhibit certain superior properties than their crystalline counterparts with the same or similar compositions, such as tensile or compressive strength, wear resistance and corrosion resistance as well as oxidation resistance. As promising structural materials, the study of light-metal-based amorphous alloys has grown in the past two decades. To date, light-metal-based amorphous alloys have been successfully prepared in several alloy systems, including Mg-TM-RE (wherein TM represents late transition metals, such as Cu and Ni, and RE represents rare earth metals, such as Y and La), Al-TM-RE (including Ni, Co and Fe as the TM element and Gd and Y as the RE element), Al-Cu-Mg-Ni and recently reported Ca-Cu-Mg alloys.

Table 1 lists the glass transition temperature Tg, onset temperature of crystallization Tx, reduced glass transition temperature Trg (defined as glass transition temperature over the melting point of the alloy in Kelvin), calculated mass